

CESSNA

1969 thru 1974

MODEL

310 AND 310 TURBO SERIES

FOREWORD

This Service Manual contains factory recommended procedures for ground handling, servicing and maintaining the Cessna 310 Series Aircraft. Where reference is made to the 310 Aircraft in this Service Manual, this reference applies to the 310P, 310Q and Turbo 310P and Turbo 310Q certified aircraft. This manual also describes the Cessna 310QII and Turbo 310QII which are the same as the Cessna 310Q and Turbo 310Q with some optional equipment installed as standard. Where there are specific differences, reference will be made to the individual aircraft. Besides serving as a reference for the experienced mechanic, this Service Manual also covers step-by-step procedures for the less experienced mechanic. This Service Manual should be kept in a handy place for ready reference. If properly used, it will better enable the mechanic to maintain the Cessna 310 Series aircraft and thereby, establish a reputation for reliable service.

The information in this Service Manual is based on data available at the time of publication, and is supplemented and kept current by Service Letters and Service News Letters published by Cessna Aircraft Company. These are sent to all Cessna Dealers so that they have the latest authoritative recommendations for servicing Cessna airplanes. Therefore, it is recommended that Cessna owners utilize the knowledge and experience of the factory-trained Dealer Service Organization.

In addition to the information in this Service Manual, a group of vendor publications are available from the Cessna Customer Services Department which describe complete disassembly, overhaul and parts breakdown of some of the various vendor equipment items. A listing of the available publications is issued periodically in Service Letters.

This Service Manual covers the 1969 through 1974 Model 310 and Turbo 310 Series aircraft which are certificated as follows:

1969	1970-1973	1974
310P T310P	310Q T310Q	310Q/310Q II T310Q/T310Q II

THIS REPRINT DATED DECEMBER 1974 OF BASIC SERVICE MANUAL D872-13 DATED DECEMBER 1970 INCORPORATES CHANGE 1 DATED APRIL 1971 CHANGE 2 DATED DECEMBER 1971, CHANGE 3 DATED JUNE 1972, CHANGE 4 DATED OCTOBER 1972, CHANGE 5 DATED JANUARY 1973, CHANGE 6 DATED SEPTEMBER 1973, CHANGE 7 DATED FEBRUARY 1974 AND CHANGE 8 DATED MAY 1974.

SERVICE MANUAL
DECEMBER 1970
REPRINTED DECEMBER 1974

INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES

LIST OF EFFECTIVE PAGES

NOTE: The portion of the text affected by the current change is indicated by a vertical line in the outer margin of the page.

Dates of issue for original and changed pages are:

Original . . . 0 . . . Dec 1970	Change . . . 5 . . . Jan 1973
Change . . . 1 . . . Apr 1971	Change . . . 6 . . . Sep 1973
Change . . . 2 . . . Dec 1971	Change . . . 7 . . . Feb 1974
Change . . . 3 . . . Jun 1972	Change . . . 8 . . . May 1974
Change . . . 4 . . . Oct 1972	

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 918, CONSISTING OF THE FOLLOWING:

Page No.	Change No.	Page No.	Change No.	Page No.	Change No.
*Title	8	2-27	7	4-2 - 4-6	0
*A	8	2-28 - 2-29	6	4-6A	1
*B - C Added	8	2-30	4	4-6B Blank	1
i	6	2-30A	7	4-7	1
ii	7	2-30B Blank	3	*4-8 - 4-9	8
1-1	7	2-31	7	4-10 - 4-13	0
1-2	4	2-32	4	4-14 - 4-15	6
1-3	3	2-32A	6	4-16	4
1-4	2	2-32B Blank	3	4-16A	6
1-4A - 1-4B	2	2-33 - 2-34	6	4-16B	2
1-5	2	2-34A	6	4-17	6
1-6	4	2-34B Blank	6	4-18	7
1-7 - 1-8	0	2-35	0	4-18A	7
1-9	3	2-36	6	4-18B Blank	2
1-10	2	2-37 - 2-38	7	4-19 - 4-20	0
1-11 - 1-12	0	2-39	1	*4-21 - 4-26	8
*1-13	8	2-40 - 2-41	0	4-27 - 4-29	0
1-14 Blank	0	2-42 - 2-43	6	4-30	4
2-1 - 2-2	6	2-44	1	4-31 - 4-33	0
2-2A	2	*2-45	8	4-34	6
2-2B Blank	2	2-46	7	*4-34A	8
2-3	4	2-47	6	4-34B Blank	6
2-4	0	2-48	0	4-35	6
2-5 - 2-6	4	2-49	2	*4-36 - 4-37	8
2-6A	2	2-50	1	4-38	2
2-6B	6	2-51 - 2-52	2	4-39	7
2-7	2	*2-53	8	*4-40	8
2-8 - 2-9	7	2-54	6	4-41 - 4-46	0
2-10 - 2-11	2	*2-55	8	4-47	2
2-12	6	2-56	4	4-48	0
2-12A - 2-12N	6	*2-57	8	*4-49	8
2-13 - 2-14	6	2-58 - 2-60	6	4-50 - 4-51	0
2-14A	6	3-1	6	4-52	7
2-14B	7	3-2 - 3-4	2	4-53 - 4-54	0
*2-15	8	3-4A - 3-4B	2	4-55	2
2-16	7	3-4C	3	4-56 - 4-57	0
2-17 - 2-18	6	3-4D Blank	2	*4-58	8
2-18A	7	3-5 - 3-9	0	*4-58A Added	8
2-18B Blank	2	3-10	7	*4-58B Blank Added	8
2-19	6	3-11 - 2-15	0	*4-59	8
2-20 - 2-21	0	3-16	4	4-60 - 4-65	0
2-22	6	3-17 - 3-18	0	4-66 Blank	0
2-22A	7	3-18A - 3-18B	6	*5-1	8
2-22B Blank	0	3-19 - 3-20	0	5-2	6
2-22C	1	3-20A - 3-20B	0	5-2A	6
2-22D Blank	1	3-21 - 3-24	0	5-2B Blank	6
2-23	1	3-25	2	5-3 - 5-6	0
2-24	0	3-26 - 3-31	0	5-7	7
*2-25 - 2-26	8	3-32	2	5-8	0
*2-26A	8	3-33 - 3-39	0	5-9	2
2-26B Blank	1	3-40 Blank	0	*5-10	8
		4-1	4	5-11	0

* The asterisk indicated pages changed, added or deleted by the current change.

LIST OF EFFECTIVE PAGES

Page No.	Change No.	Page No.	Change No.	Page No.	Change No.
*5-12	8	9-43 - 9-44	4	11-24 Blank	0
5-13	0	9-45 - 9-47	0	*12-1 - 12-2	8
*5-14	8	9-48	2	*12-2A	8
5-15	0	9-48A	2	12-2B	0
5-16 Blank	0	9-48B Blank	2	12-2C	2
*6-1 - 6-2	8	9-49	4	12-2D	6
6-2A	6	9-50	2	12-3 - 12-4	6
6-2B Blank	6	9-51 - 9-52	0	12-4A	6
6-3 - 6-8	0	9-52A	4	*12-4B	8
*6-9	8	9-52B Blank	0	*12-5 - 12-6	8
6-10	7	9-53 - 9-54	4	*12-6A - 12-6B	8
*6-11	8	9-54A - 9-54B	4	12-5 - 12-6	2
6-12 - 6-13	6	9-55	4	12-6A	2
6-14 Blank	6	9-56	0	12-6B Blank	2
*7-1	8	9-57 - 9-58	4	12-7 - 12-8	0
7-2	0	9-59 - 9-61	0	12-9 - 12-10	2
7-2A	6	*9-62	8	12-11 - 12-15	0
7-2B Blank	6	9-63 - 9-66	0	12-16	2
7-3 - 7-5 - 7-6	0	9-67	7	12-17 - 12-18	0
7-6A	2	9-68	4	12-19	2
7-6B Blank	2	9-69	7	12-20 Blank	2
7-7	0	9-70 - 9-71	2	*13-1 - 13-2	8
7-8	2	9-72 Blank	2	13-2A	6
7-9 - 7-10	0	10-1	4	13-2B Blank	0
*7-11	8	10-2	0	13-3 - 13-6	3
7-12	2	10-3 - 10-6	4	13-6A	6
*8-1	8	10-7	5	13-6B - 13-6C	3
8-2	6	*10-8 - 10-9	8	13-6D	6
8-2A	6	10-10	4	13-7 - 13-8	6
8-2B Blank	6	*10-11	8	*13-9	8
8-3	6	10-12 - 10-14	4	13-10	2
8-4	2	*10-15 - 10-17	8	13-11 - 13-12	0
8-5	6	10-18 Blank	4	*13-12A Added	8
*8-6	8	11-1 - 11-2	7	*13-12B Blank Added	8
8-7 - 8-8	3	11-2A	6	*13-13	8
*8-9	8	11-2B Blank	6	13-14	6
8-10	6	11-3 - 11-4	0	13-15	0
9-1 - 9-3	6	*11-4A	8	*13-16	8
9-4	7	11-4B Blank	6	*13-16A - 13-16I	8
9-5 - 9-11	0	11-5	0	13-16J Blank	4
9-12 - 9-13	7	11-6	4	*13-17	8
9-14	0	11-7 - 11-8	5	13-18	0
9-15	6	*11-8A	8	13-19 - 13-20	3
9-16	4	11-8B Blank	5	13-21 - 13-25	0
9-17 - 9-20	0	11-9	5	13-26	4
9-21 - 9-22	4	11-10 - 11-11	4	*13-27	8
9-22A	4	*11-12	8	13-28	3
9-22B Blank	4	11-13	0	*13-28A	8
9-23 - 9-24	4	11-14	4	13-28B Blank	4
9-25 - 9-27	0	*11-15	8	13-29	0
9-28	3	11-16	7	13-30	4
9-29 - 9-31	0	11-16A	6	13-31	0
9-32 - 9-33	7	11-16B	7	*13-32 - 13-34	8
9-34	0	11-17 - 11-18	7	13-34A	0
9-35 - 9-36	7	11-18A	7	*13-34B	8
9-37 - 9-38	0	11-18B	4	*13-35	8
9-39	4	*11-18C	8	13-36	4
9-40	0	11-18D	7	*13-36A	8
9-41 - 9-42	4	11-18E - 11-18F	4	13-36B Blank	4
9-42A	4	11-19	7	13-37	4
9-42B Blank	4	11-20 - 11-23	0	13-38	6

310 SERVICE MANUAL

LIST OF EFFECTIVE PAGES

Page No.	Change No.	Page No.	Change No.
*13-39	8	*14-113	8
13-40	5	14-114	6
13-41 - 13-42	0	*14-115 - 14-118	8
13-43 - 13-44	3	*15-1	8
13-44A - 13-44B	6	15-2	0
13-44C	7	15-2A	0
13-44D Blank	6	15-2B	6
13-45 - 13-48	6	15-3 - 15-6	0
13-49	7	15-6A	0
*13-50	8	15-6B Blank	0
*13-50A - 13-50C	8	15-7 - 15-36	0
13-50D Blank	6	15-36A - 15-36D	0
13-51 - 13-52	3	15-37 - 15-40	0
13-53	2	15-40A	0
*13-54	8	15-40B Blank	0
13-55	6	15-41 - 15-48	0
*13-56	8	15-48A - 15-48B	0
14-1	4	15-49 - 15-52	0
14-2 - 14-4	0	15-52A - 15-52B	0
14-5 - 14-6	4	15-53 - 15-58	0
14-6A	6	15-58A - 15-58D	0
14-6B Blank	4	*15-58E - 15-58F	8
14-7	6	15-59 - 15-62	0
*14-8	8	15-62A	0
*14-8A - 14-8B	8	15-62B Blank	0
14-9	0	15-63 - 15-73	0
14-10 - 14-11	6	15-74 Blank	0
14-12 - 14-13	2	16-1 - 16-2	6
14-14 - 14-15	0	16-3	5
14-16	6	16-4	4
14-16A	7	16-4A	0
14-16B - 14-16D	2	16-4B Blank	0
14-16E	6	16-5	6
14-16F Blank	6	16-6 - 16-13	0
14-17	2	16-14	3
14-18	7	16-14A	4
14-19	0	16-14B Blank	4
14-20	2	*16-15	8
14-21	0	16-16	6
*14-22	8	16-17 - 16-20	4
*14-22A Added	8	*16-21	8
*14-22B Blank Added	8	16-22	0
*14-23 - 14-24	8	16-23	6
14-25 - 14-26	4	16-24 - 16-38	0
25.04 - 35.05	4	16-38A	0
*35.06	8	16-38B Blank	0
37.03 - 41.04	0	16-39 - 16-50	0
41.06	6	16-50A	6
41.07 - 52.03	0	16-50B Blank	0
52.05 - 52.06	3	16-51	6
53.02 - 90.00	0	16-52 - 16-58	0
14-100	6	16-59	5
*14-101	8	16-60 Blank	3
14-102	6		
*14-103	8		
14-104 Blank	6		
*14-106 - 14-108	8		
*14-108A - 14-108E	8		
*14-109 - 14-112	8		
14-112A	6		
14-112B Blank	6		



SERVICE MANUAL CHANGE NOTICE

REFERENCE MANUAL NUMBER: As Noted

DATE: 9-20-74

MANUAL TITLE: All 310, 320, 340 and 400 Series Aircraft

TO: All Zones and Dealers

FROM: CUSTOMER SERVICES DEPARTMENT

CORRECT YOUR SERVICE MANUAL AS SHOWN BELOW.

SECTION NUMBER	PAGE NUMBER	PARAGRAPH NUMBER	DESCRIPTION OF CHANGES
			<p>To facilitate wing attachment on production aircraft, tooling changes have been made to the front spar attach fitting that affect interchangeability on earlier aircraft; therefore, Service Manuals need to be corrected as follows:</p> <p>Under "Installation of Wing" paragraph, add a note "See Additional Wing Installation Instructions", and incorporate a copy of one of the attached pages opposite the installation information in each of the manuals listed below.</p>
2	2-4	2-7	P150C-13, 310 thru 310D
2	2-5	2-7	D455-13, 310F thru 310K
3	3-25	N/A	D526-13, 310L & 310N
3	3-28	N/A	D872-13, 310P & 310Q
2	2-5	2-7	D247-13, 320/Skyknight, 1962 thru 1965
3	3-28	N/A	D508-13, 320/Skyknight, 1966 thru 1968
3	3-24	N/A	D930-13, 340
3	3-26	N/A	D777-13, 401/402 Series
3	3-18	N/A	D609-13, 411/411A
3	3-20	N/A	D778-13, 414
3	3-21	N/A	D817-13, 421 Series

TABLE OF CONTENTS

SECTION		PAGE
1	GENERAL INFORMATION	1-1
2	GROUND HANDLING, SERVICING AND INSPECTION	2-1
3	AIRFRAME	3-1
4	LANDING GEAR AND BRAKE SYSTEM	4-1
5	CONTROL COLUMN, AILERON AND TRIM CONTROL SYSTEMS	5-1
6	ELEVATOR AND TRIM CONTROL SYSTEMS	6-1
7	RUDDER AND TRIM CONTROL SYSTEMS	7-1
8	FLAP CONTROL SYSTEM	8-1
9	ENGINE	9-1
10	PROPELLER SYSTEM	10-1
11	FUEL SYSTEM	11-1
12	INSTRUMENT AND RELATED SYSTEMS	12-1
13	UTILITY AND OPTIONAL SYSTEMS	13-1
14	ELECTRICAL SYSTEMS	14-1
15	ELECTRONICS SYSTEMS	15-1
16	STRUCTURAL REPAIR	16-1